

FIG. 1



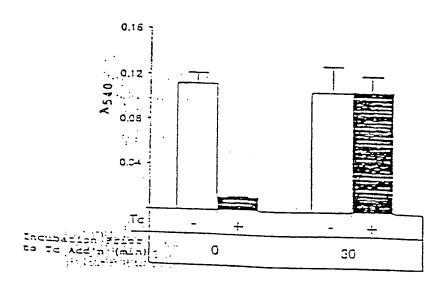


FIG. 2

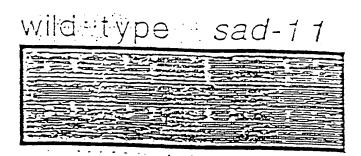


FIG. 3

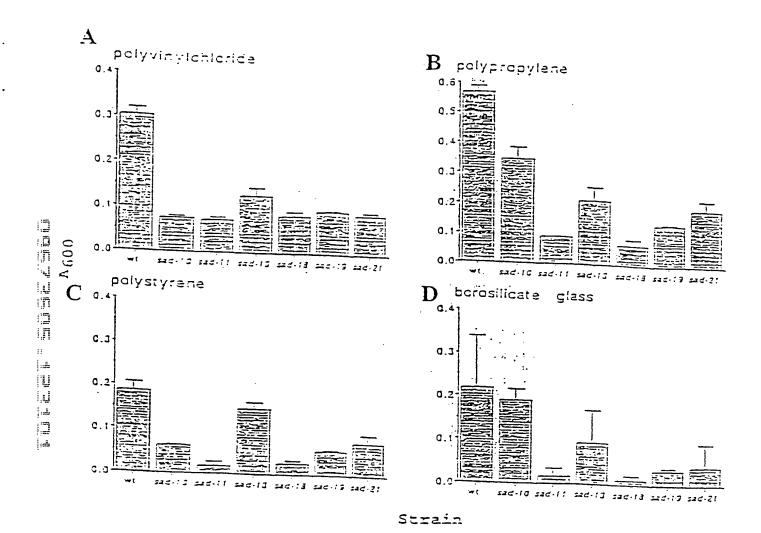


Fig. 4

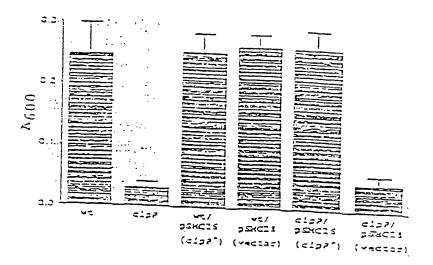


Fig. 5

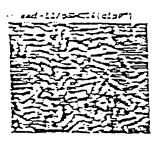




Fig. 6

MUMPECE MENTALL

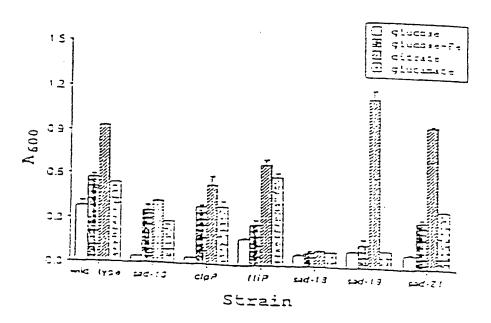


Fig. 7

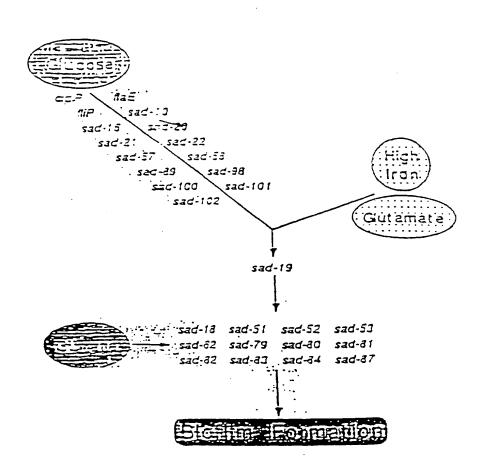


Fig. 8

545-13 SEQ ID NO: 4

GATGGE

sad-19 SEQ ID NO: 5

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Fig. 9

sed-21 SEQ ID NO: 7



>sad-10 SEQ ID NO: 1

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>sad-11 Match: clipP SEQ ID NO: 2
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>sad-16 SEQ ID NO: 3

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>sad-22 SEQ ID NO: 8

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>sad-51 SEQ ID NO: 9

>sad-52 SEQ ID NO: 10

>sac-53 SEQ ID NO: 11

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>sad-57 SEQ ID NO: 12



SEQ ID NO: 13

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>sad-62 SEQ ID NO: 14

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>sad-79 SEQ ID NO: 15

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AAAANNCNGCCNACAANCCNNGGNGTNAANNTCCACGNNNTGCNCGACGA
NTGCCAATMNAANNTTCTCNACNGTTTCACCTGGAANGACCTTGCCGANAC
CNANACNNTCACCAANGGTGAANNCAACTCCCGGNAGATNCGCTNCACNCC
NGACCCCAACGAATCCTNCGCCGNNGGTTTTNTTAGCANCATCGNCGNCANC
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AACCATCAGNTTNTNCCNAAANGTACTAGTCTACCCGTGGCCANANAANT
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>sad-83 SEQ ID NO: 18 19/34

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ANNANA.A.ACTANNCCCCCGGAANCGNTCNATGACCTCCTGNTCCAAATNGT

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NCNCCCTGGGCCNNCCNCGNCNGGATINNGCCCGGACATCNNCTNANCAAANT

NCCCCNCCGCCNTACTNGNCCANCCTTGACCANNTTTTGCNCTCCTNTCCTTACT

GGGTCNGCT.CGNTCCCGGNTTGCTNACCANNATGGTCCNAANCCTGCTGACT

INCACTCTCAAATNCGCCCCGGCCAACCCNTGCTGATCGNCTTCNNCNCCCNA

GTNCTATTCAACCCCTGCCCCAAA

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>sad-98 SEQ ID NO: 21

>sad-100 SEQ ID NO: 22

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>sad-102 SEQ ID NO: 24

TNCTTGTGTATAAGNTCAGGCGCAGGCGNGACCGCACTANCTATGTGANGNG CTCTCNGTCGGNGNNCAGGCNATGCCCGTCATTGTCCATNTGCNGACNACCC TACTACTCTTNTGCNTGANCATGACTGCCGGGCCGANAAGTTGCGCATTGTC ACCTAACCCTGGGCGCTGTATGTCTNCNAAAANAACTGCAAGATGCTGGGC CTGGACTACNAMCCACGGCCATCGTGTTCAAGCNCCTGGGTNTCGACGTGG AATGGCAGTTCCTCCCGTGGAANCGCTGCCTGGTGATGCTGGANCAGGGGTTG GCGTACCGNNCCCNGTACNNTTNNACCCNTCNNNAAANCNATNCCNTGCNGC TTTACCCCNNCNAANCNCTNTCNGACNTGGAATTTGTGATNTTCTACNCCNA NNTANTONACONTGGNNAANAA

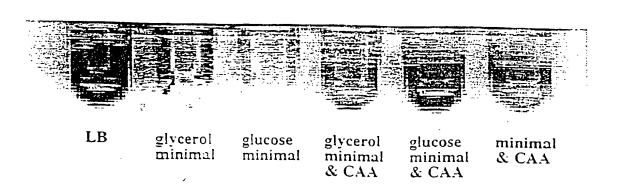


Fig. 10

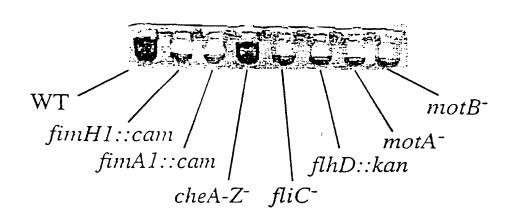
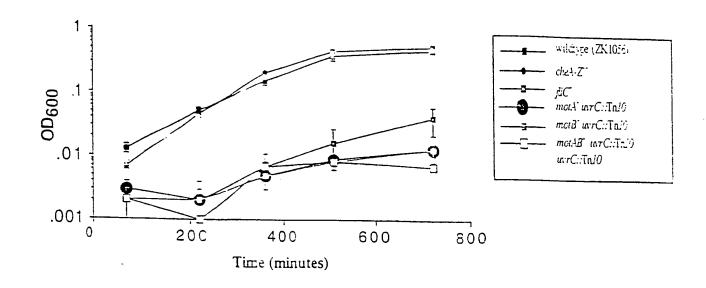


Fig. 11





WT



cheA-Z-fliC-motA-motB-motAB-

Fig. 12

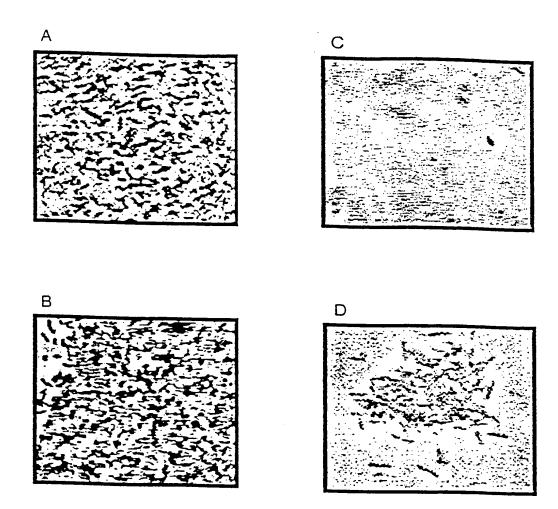


Fig. 13

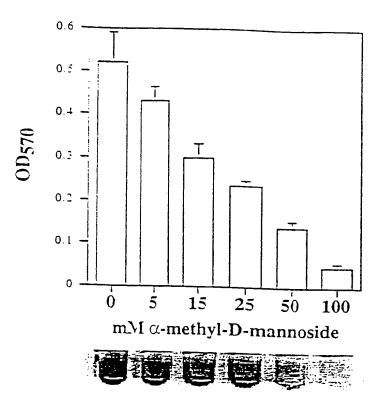


Fig. 14

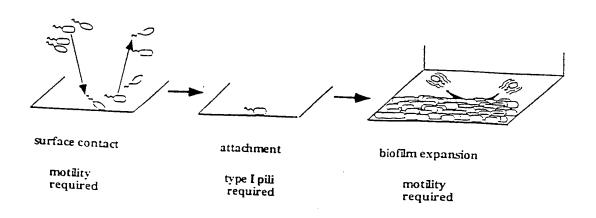


Fig. 15

wt pilY1 pilB flgK

Fig. 16

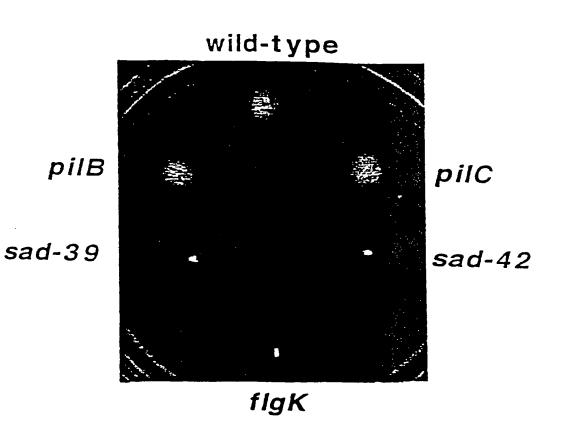


Fig. 17

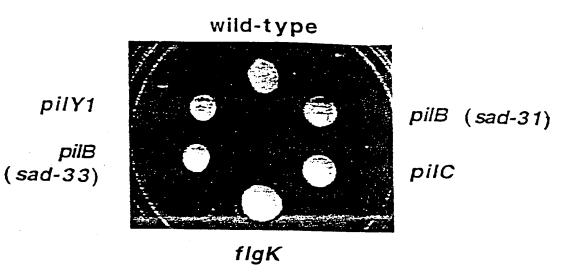


Fig. 18

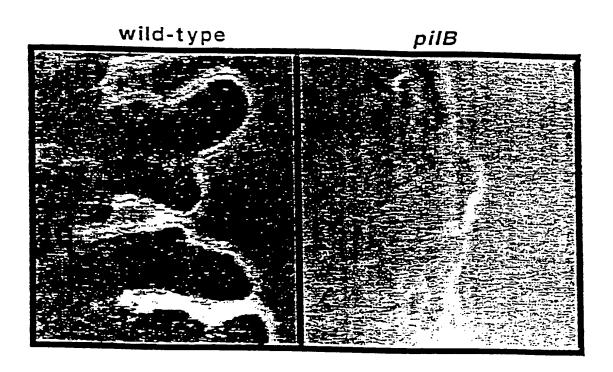


Fig.19

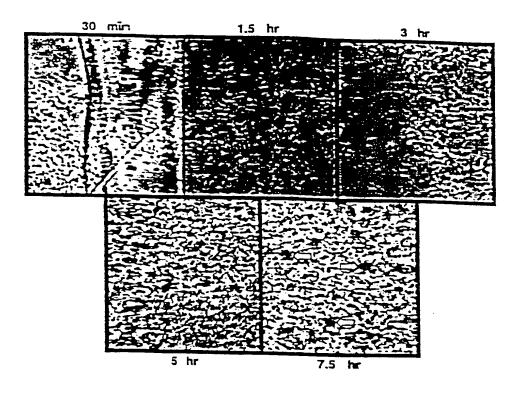
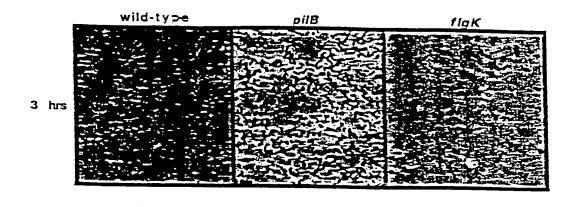


Fig. 20



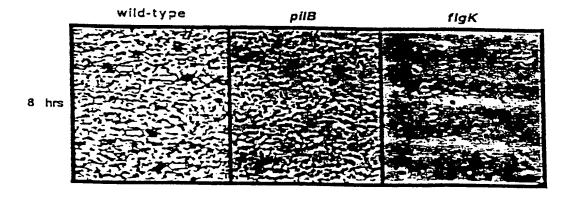


Fig. 21

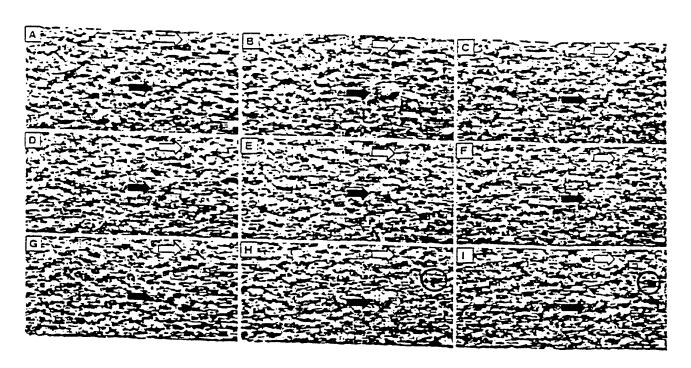


Fig. 22

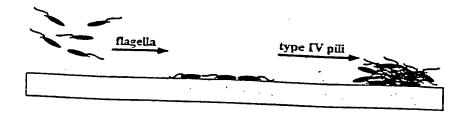


Fig. 23